

IN THE CLAIMS

Please amend the claims as hereafter provided:

1. (Currently amended) A compression process for adaptively compressing an image and storing the compressed image on a storage medium of a computer system, ~~wherein a plurality of compression techniques are utilized to compress the image,~~ comprising:

segmenting the image into a plurality of n -segments;

analyzing a first segment of the plurality of segments to determine a ~~first optimal~~ compression technique for the first segment;

applying the ~~first~~ compression technique to the first segment whereby the first segment is transformed into a storable form;

creating a tag for the compressed first segment, the tag including a decompression instruction particular to the compression technique and information identifying the beginning and outline of the first segment;

storing the tag and the compressed first segment in ~~the~~ a storage medium;

analyzing a subsequent segment in the plurality of segments to determine a ~~second optimal compression for the subsequent segment;~~

applying the ~~second~~ compression technique to the subsequent segment;

~~storing the compressed subsequent segment in the storage medium;~~ and

repeating the steps of analyzing, applying, creating and storing for each subsequent segment in of the plurality of segments, wherein each of the n th plurality of segments segment is compressed by an n th a compression technique that is optimal to that particular segment.

2. (Currently amended) A compression process as claimed in claim 1, wherein the ~~first~~two or more of the compression techniques and the ~~second compression technique~~ are different from each other.

3. (Currently amended) A compression process as claimed in claim 1, ~~wherein at least two different compression techniques are applied to the plurality of segments~~further comprising, for any segment of the plurality of segments, the step of further dividing the segment

into sub-segments and repeating the steps of analyzing, applying, creating and storing for each of the sub-segments.

4. (Currently amended) A compression process as claimed in claim 1, ~~wherein storing the compressed segment comprised writing a data file comprising data description members and display instruction members~~further comprising encoding the plurality of compressed images to form a file of compressed encoded image data in transmittable form and storing the file in the storage medium.

5. (Currently amended) A compression process as claimed in claim 4, wherein for a plurality of images, repeat the step of segmenting for each of the images and for each of its resulting segments repeat the steps of analyzing, applying, creating and storing~~storing the compressed segment comprises writing a data file further comprising memory management.~~

6. (Currently amended) A compression process as claimed in claim ~~[[4]]~~1, wherein storing the compressed segment comprises writing a data file ~~selected with information including one or more from the group consisting of~~ memory management, data description members and display instruction members.

7. (Currently amended) A compression process for adaptively compressing an image stream having a plurality of images and storing the compressed images on a storage medium of a computer system, ~~wherein a plurality of compression techniques are utilized to compress each image,~~ comprising:

for each image of the plurality of images, segmenting a first the image into a plurality of n-segments, and for each segment of the plurality of segments associated with that image performing the steps of:

_____ analyzing a first the segment of the plurality of segments to determine a suitable first optimal compression technique that is optimal for the first the segment;

_____ applying the first suitable compression technique to the first segment;

creating a tag for the compressed segment, the tag including a decompression instruction particular to the suitable compression technique and information identifying the beginning and outline of the first segment; and

storing the tag and the compressed first-segment in the storage medium;
~~analyzing a subsequent segment in the plurality of segments to determine a second optimal compression for the subsequent segment;~~

~~applying the compression technique to the subsequent segment;~~

~~storing the compressed subsequent segment in the storage medium;~~

~~repeating the steps of analyzing, applying and storing for each segment in the plurality of segments;~~

~~segmenting each subsequent image into a plurality of segments; and repeating the steps of analyzing, applying and storing for each segment in each subsequent image.~~

8. (Currently amended) A compression process as claimed in claim 17, wherein two or more of the first-compression techniques and the second-compression technique are different from each other.

9. (Currently amended) A compression process as claimed in claim 17, wherein, for each of the images, the segments are either overlapping or arbitrarily shaped regions of the image ~~at least two different compression techniques are applied to the plurality of segments.~~

10. (Currently amended) a compression process as claimed in claim 17, wherein storing the compressed segment comprises writing a data file comprising information including one or more of a memory manager, a data description members and a display instruction members.

11. (Withdrawn) A file structure for storing compressed data in a data file, wherein the data file can be displayed on a playback device having a predefined amount of memory, comprising:

A memory management command in a first position in the data file, wherein the memory management command instructs the playback device to perform a predefined operation;

a set of data description members; and
a set of display instructions, wherein the display instructions include a starting data point, and a size parameters of the data.

12. (Withdrawn) A file structure as claimed in claim 11, wherein the data description members comprise:

an image identifier;
an image shape identifier; and
identifier of the number of fill styles, wherein the fill styles define the type of data in the segment;
a data draw command, wherein the data draw command instructs the playback device to display the data; and
a first affine transform, wherein the transform defines scaling, rotating or skewing of the data contained within the segment.

13. (Withdrawn) A file structure as claimed in claim 12, wherein the fill styles are selected from a group consisting of solid color data, gradient data, bitmap data, or pixel data.

14. (Withdrawn) A file structure as claimed in claim 13, further comprising a second affine transform, wherein the transform defines scaling, rotating or skewing of the segment.